

PATENT

**GLASS YARNS SUITABLE FOR REINFORCING ORGANIC AND/OR
INORGANIC MATERIALS, COMPOSITES CONTAINING THEM AND
COMPOSITION USED**

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ABSTRACT

The invention relates to glass reinforcing yarns, the composition of which comprises the following constituents, within the limits defined below, expressed in percentages by weight:

SiO ₂	50 - 65%
Al ₂ O ₃	12 - 20%
CaO	13 - 16%
MgO	6 - 12%
B ₂ O ₃	0 - 3%
TiO ₂	0 - 3%
Na ₂ O + K ₂ O	< 2%
F ₂	0 - 1%
Fe ₂ O ₃	< 1.

These yarns are made of a glass offering an excellent compromise between its mechanical properties represented by the specific Young's modulus and its melting and fiberizing conditions.